

**AMENDED CLAIMS**

[received at the International Bureau on December 22, 2003 (22.12.03),  
claim 1 amended]

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**Patent Claims**10 Method for the Electrically Conductive Connection of Lacquered Wires

1. A method for the electrically conductive connection of at least two wires provided  
with a insulating lacquer (lacquered wires),  
15 characterized in that  
the lacquered wires are at least partially enclosed, at their regions (22, 24, 26, 32, 36)  
which are to be connected, by an electrically conductive material, that by the  
ultrasound effect, on one hand, the insulating lacquer of the wires is broken away and,  
on the other hand, a fixed connection occurs between the electrically conductive  
20 material and the wires, with simultaneous electrically conductive connection between  
them.
2. A method according to claim 1,  
characterized in that  
25 a plurality of lacquered wires (46, 48, 52, 54, 56) and at least one uninsulated  
conductor (64), such as stranded wire, are partially enclosed by the material.
3. A method according claim 1 or 2,  
characterized in that  
30 as the electrically conductive material, one in the form of a sleeve or a cup is  
employed.

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4. A method according to at least one of the preceding claims,  
characterized in that  
an inherently rigid material is employed as the electrically conductive material.
- 5 5. A method according to at least one of the preceding claims,  
characterized in that  
a flexible material, such as mesh, is employed as the electrically conductive material.
- 10 6. A method according to at least one of the preceding claims,  
characterized in that  
the material is connected in a shape @ manner with at least two, preferably more,  
lacquered wires.
- 15 7. A method according to at least one of the preceding claims,  
characterized in that  
the wires connected to the material and to one another in an at least shape @ manner  
are connected as a unit to an electrical conductor, such as a carrier (38), by means of  
ultrasound welding.
- 20 8. A method according to at least one of the preceding claims,  
characterized in that  
as the lacquered wire, one comprising a conductor of aluminum and/or copper is  
employed.
- 25 9. A method according to at least one of the preceding claims,  
characterized in that  
as the electrically conductive material, one of or containing copper is employed.
- 30 10. A method according to at least one of the preceding claims,  
characterized in that  
for applying the ultrasound, one or more work tools of an ultrasound welding machine.

are employed.

11. A method according to at least one of the preceding claims,  
characterized in that

5 a sheet metal strip is employed as the electrically conductive material at least partially  
surrounding the lacquered wires (46, 48, 52, 54, 56) and any other conductor present.

12. A method according to at least one of the preceding claims,  
characterized in that

10 a sheet metal strip formed as a crimp (44) is employed.

13. A method according to at least one of the preceding claims,  
characterized in that

15 a single ply or multiple ply strip material is wound around the lacquered wires as the  
electrically conductive material.

14. A method according to at least one of the preceding claims,  
characterized in that

20 as the electrically conductive material surrounding the lacquered wires and any further  
electrical conductor present, a preformed open receptacle (58, 60, 62), in particular  
with a U-, circularly or trapezoidally-shaped cross-section, is employed.